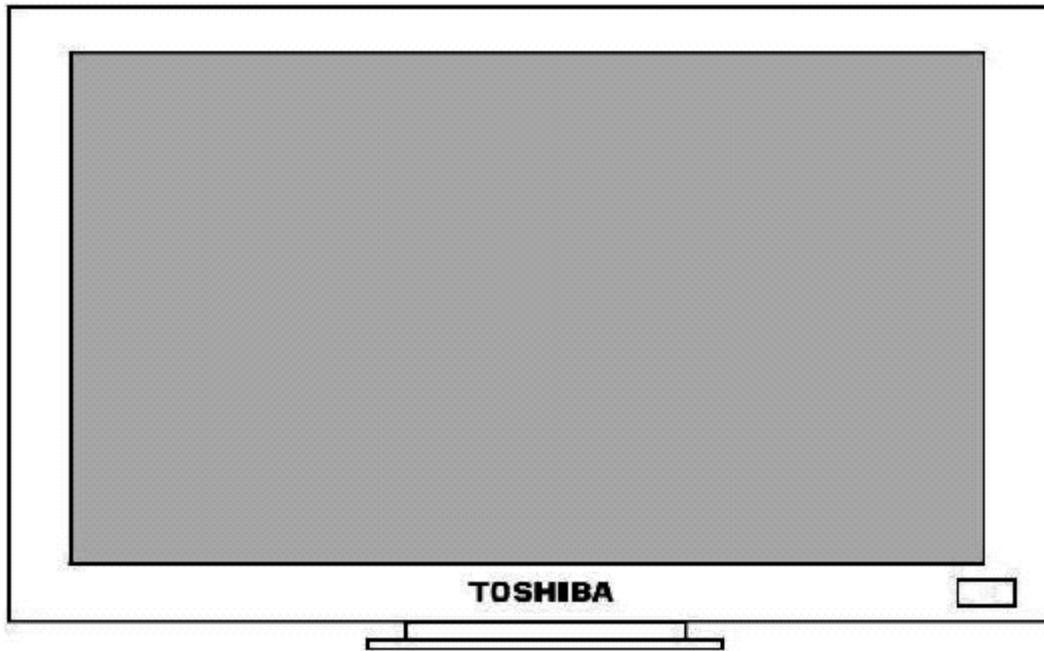


TOSHIBA

OWNER'S MANUAL

LCD Monitor

P47LHA





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Safety Instructions







Before using this unit, please read this manual thoroughly to avoid injury and/or damage. Be sure to observe the following instructions, carefully reading each sign and figure listed below:

Meaning of Signs

Sign	Meaning of Sign
 Warning	May cause death or serious injury* ¹ .
 Caution	May cause injury* ² or material damage* ³ .

- * 1: "Serious injury" refers to blindness, burns (by both high and low temperature), electrical shocks, poisoning; which may cause hangover or require hospitalization or a long-term treatment.
- * 2: "Injury" refers to wounds, burns, electric shocks; which will not require hospitalization nor a long-term treatment.
- * 3: "Material damage" refers to damages extended to houses, household effects, livestock, pets.

Example of figure

Figure	Meaning of Figure
 Prohibition	“  “ Shows prohibited matter. The contents are written or shown by picture at inside or near the figure.
 instruction	“  “ Shows instructed matter. The contents are written or shown by picture at inside or near the figure.
 High-tension current	“  “ Shows caution. The contents are written or shown by picture at inside or near the figure. The figure on the left shows caution for High-tension current.

 **Warning**

Malfunction or Trouble

If smoke or peculiar smells comes from the unit, remove the power plug from the outlet immediately.

If the unit is still used in this condition, it may cause a fire or an electrical shock. Make sure that the smoke or smell has stopped, then contact your dealer for inspection.



If when there isn't picture, remove the power plug from the outlet immediately.

If the unit is still used in this condition, it may cause a fire or an electrical shock. Contact your dealer for inspection.



If water is spilled or objects are dropped inside the unit, remove the power plug from the outlet immediately.

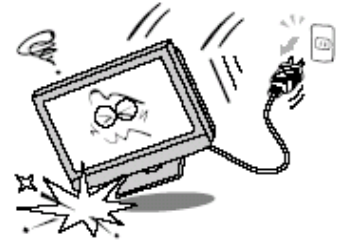
If the unit is still used in this condition, it may cause a fire or an electrical shock.

Contact your dealer for inspection.



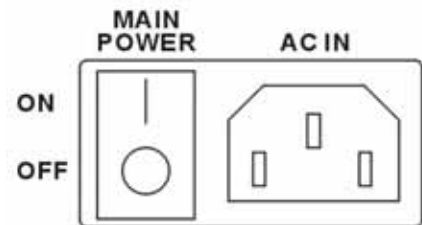
If the unit is dropped or the cabinet is damaged, remove the power plug from the outlet immediately.

If the unit is still used in this condition, it may cause a fire or an electrical shock. Contact your dealer for inspection.



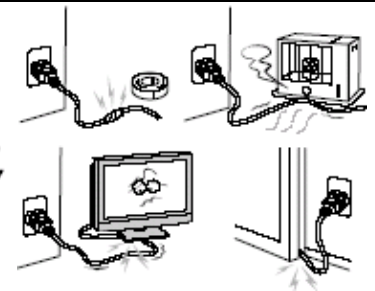
To turn off the power of the unit, press “○” on the main power switch.

- The power standby/on indicator goes off and the set cannot to be turned on/ off by using the POWER button on the remote control. (To turn on/off the unit by the remote control, press the main power switch again and light the power standby/on indicator.)
- When turning off the unit by pressing the POWER button on the remote control, the main power of the unit is not turned off.
- To disconnect the unit completely from power supply, remove the power plug from the outlet.



If the power cord or plug is damaged or becomes hot, turn off the main power switch of the unit, make sure the power plug has cool down and remove the power plug from the outlet.

If the unit is still used in this condition, it may cause a fire or an electrical shock. Contact your dealer for replacement.



Installation

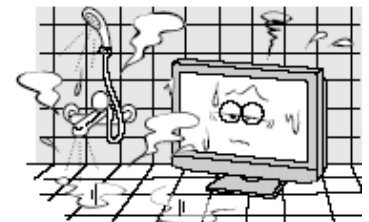
When installing the unit, use the specified stand.

If not, the unit may fall down and cause an injury.



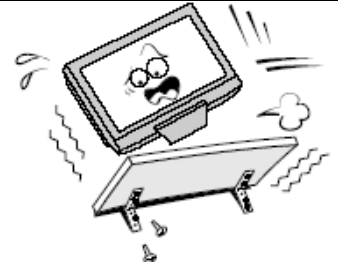
Do not place the unit in locations of high humidity, such as a bathroom or close to a humidifier.

This may cause a fire or an electrical shock.



Do not place the unit in an unstable location, such as a shaky table or incline.

The unit may fall down and cause injury or damage.
Install the unit on a horizontal, stable surface.



Do not place the unit in a location subject to vibration.

The unit may fall down because of the vibration and may cause an injury.



Insert the power plug fully into a 100 – 240V AC outlet.

- If an outlet other than 100 – 240 V AC is used, it may cause fire or electrical Shock.
- Improper insertion of the plug may cause fire.
- Do not use a damaged power plug or worn out outlet.



Do not place objects on the unit.

If metal or liquid (when putting vase, glass or cosmetics) get into the unit, it may cause fire or electrical shock.
If any heavy object placed on the unit, it may fall down and cause injury.



When installing the unit, have your dealer arrange for professional installations.

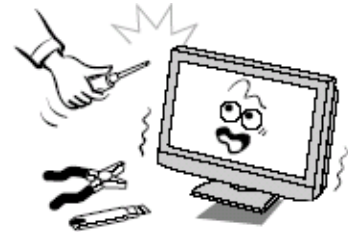
If the installation work is not correct, it may cause injury.



Use

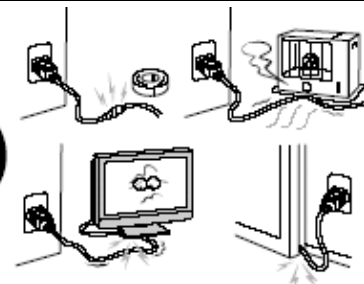
Never repair, modify or disassemble the unit by yourself.

It may cause a fire or an electrical shock because dangerous voltages exist from the unit. Consult your dealer for internal inspection and repairs.



Follow these precautions for the power cord and plug.

Do not damage, modify such as by extending, or heat (such as by placing near heating equipment).
Do not pull, place heavy objects or pinch.
Do not bend, twist or bunch up.
Fire or electrical shock may result.



Do not insert objects inside the unit.

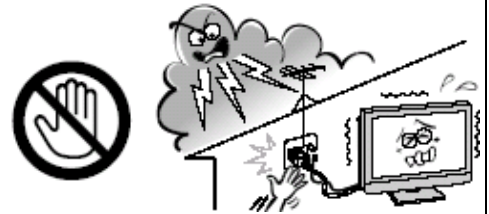
If metallic materials or combustibles such as paper get inside the unit from ventilation holes and other places, it may cause a fire or an electrical shock.

Be especially careful that children do not insert objects in the unit.



If there is thunder or lightening, do not touch the unit or the power plug.

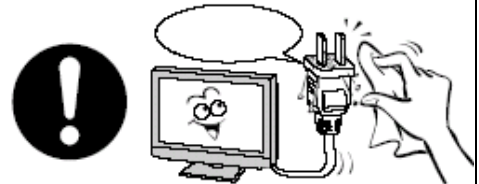
This may cause an electrical shock.



Cleaning

If dust has collected on the power plug connectors, remove the plug from the outlet and clean off the dust.

This dust may cause a fire due to reduced insulation of the plug.



Caution

Installation

Do not install the unit where humidity is high.

If the unit is installed in direct sunlight, a closed car or near a stove, it may cause overheating or electrical shock. Also the cabinet or other parts may distort or be damaged, and electrical shock may result.



Do not install the unit where it is exposed to humidity, oil, smoke or excessive dust.

If the unit is installed next to a humidistat, a stove or in a location where there is a large quantity of dust, it may cause a fire or electrical shock.



Take measures to prevent the unit from falling down.

If not, the unit may fall down and cause injury.



Do not block the ventilation holes on the unit.

The inside of the unit will overheat if the ventilation holes are sealed, which may result a fire.

- When installing the unit near a wall, keep the unit at least 10 cm from the wall.
- Do not place the unit in a closet or bookshelf where ventilation is poor.
- Do not spread a newspaper, tablecloth or curtain over the unit.
- Do not place the unit on an unstable surface, such as a rug, or a cushion, etc.
- Do not place the unit so that it is facing up or down, or on its side.



Precautions for moving the unit:

- When moving the unit, be sure to remove the plug from the wall outlet and disconnect wiring cables between equipment and detach any securing anchors. If not, fire or electrical shock may result if the power cord is damaged, injury may occur by the unit falling down.
- When unpacking or carrying the unit, at least two people are needed. Make sure the units upright,
- Do not carry the unit with the screen facing up or down.
- Handle the unit so as not to jolt the unit.



Do not overload outlets or cables beyond their capacity.

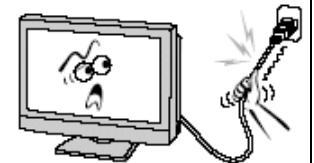
Do not use extension cords.
Electrical shock or fire may result.



Use

Do not pull the power cord when removing the plug from the wall outlet.

If the power cord is yanked, the cord may become damaged and fire or electrical shock may occur. Always hold the plug firmly when removing it.



Never insert or remove the power plug with wet hands.

This may cause electrical shock.



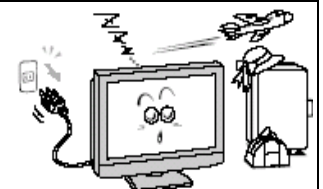
Do not climb or stand on the unit.

It may drop, fall down, break or cause an injury.



If the unit will not be used for a long period of time, remove the power plug from the wall outlet for safety.

If not, in the case of malfunction, it may cause fire.



Precautions for the remote control battery:

Only use the specified battery type.

Be sure to insert battery by matching the + and –.

Do not recharge, heat, disassemble, short or throw battery into a fire.

Do not use the battery beyond their usage period (designated on the battery), do not leave worn out battery in the unit.

If these precautions are not observed, it may lead to battery leakage or explosion and may cause burn and injury.

If leaked liquid gets into your eyes or gets in touch with your skin, it may hurt your eyes or your skin. If leaked liquid gets into your eyes or mouth or comes in contact with your skin, rinse the contacted area with clean water immediately and consult your doctor. If the leaked liquid comes in contact with your cloth, rinse the contacted area with clean water immediately. If the leaked liquid comes in contact with other equipments, clean them without touching the leaked liquid.



Do not push or jolt the LCD panel

The glass of the LCD panel may break and cause injury.

If the screen glass breaks, crystalline liquid leakage may occur. Do not touch crystalline liquid.

If leaked liquid gets into your eyes or comes in contact with your skin, it may hurt your eyes or your skin. If leaked liquid gets into your eyes or mouth or comes in contact with your skin, rinse the contacted area with clean water immediately and consult your doctor. If the leaked liquid comes in contact with your cloth, rinse the contacted area with clean water immediately. Should the leaked liquid come in contact with other equipment, clean them without touching the leaked liquid.



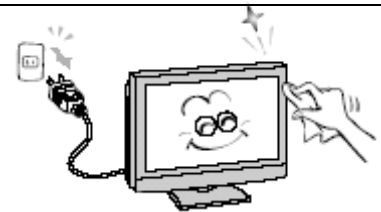
This product contains chemicals, including mercury, known to the State of California to cause birth defects or other reproductive harm.



Cleaning

Remove the power plug before cleaning.

If not, it may cause electrical shock.



Consult your dealer for internal cleaning once a year.

If dust accumulates on the unit, it may cause fire or malfunction when operate it.

Cleaning is effective especially before the rainy season when humidity is high.

Refer to your dealer about the service charge for internal cleaning.

Notes and Cautions for Use

■ On usage

- Some parts of the display are hot during operation. Please be careful.
- In case of moving long-distance, wrap the unit with blanket to avoid damages. Be careful not to bump the unit.
- Do not spray on the unit with volatile liquid like insecticide. Do not make contact with rubber or vinyl for a long time. It will damage the coating.

■ On disposal or handing over to a new owner

- It is recommended to initialize the unit by resetting "PICTURE" and "SETUP" menu.
- Do not mix with other general waste.
- Do not dispose LCD monitor in waste treated by a waste treatment center.
- This unit has a lamp inside which includes mercury. For disposal, please follow regulation of your district

■ Exemptions

- Toshiba is not liable for any damage caused by natural disaster (such as earthquake, thunder, etc.), fires, acts by third parties, accidents, owner's intentional misuse and fault, or uses in other improper conditions.
- Toshiba is not liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use of this product.
- Toshiba is not liable for any damage caused by neglect of the instructions described in the owner's manual.
- Toshiba is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment or software.
- Toshiba is not liable for any damage caused by neglect of the instructions described about the installation stand in the owner's manual.
- Toshiba is not liable for any damage caused by improper installation.

Features

High-resolution HD panel

Enjoy extreme fine pictures with a big flat LCD monitor panel of 1920x1080 pixels.

MVA system less-reflection black TFT LCD panel

MVA system and Black TFT LCD panel offer bright and wide images with clear contrast. Even placed near the window, the unit shows bright and clear images with little reflection. The viewing angles of the monitor are as wide as 176° both horizontally and vertically, enough to enjoy clear images at any view angle.

Varieties of terminals are available

Video system Input: 3 choices of terminals for Video system Input.

VIDEO BNC
S-VIDEO BNC
Y-Pb-Pr BNC

RGB: 2 choices of terminals for RGB Input.

RGB ANALOG D-Sub 15 pins
RGB DIGITAL DVI-D 24 pins

Dimmer function

With the light sensor inside, the panel will adjust the brightness according to the surrounding light intensity. There are two brightness level pre-setting. Under bright condition, it will adjust to the bright mode. Under dim condition, panel will adjust to dim mode automatically.

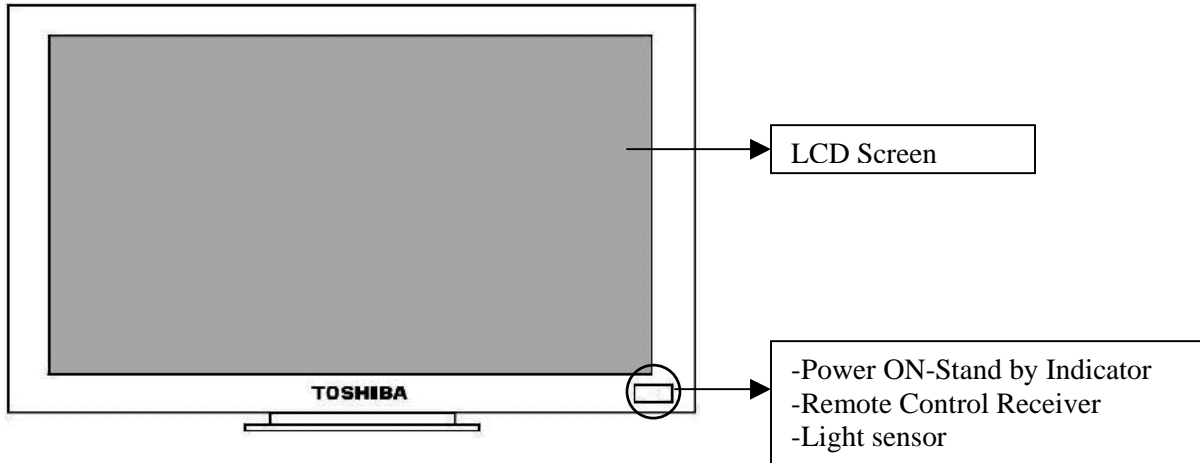
Specifications

Model name	P47LHA
Type	47-inch flat panel LCD display unit
Acceptable signals	NTSC/PAL/PC
Image device	16:9 LCD panel
Light source	fluorescent back light lamps
Resolution	1920 x 1080 dot x RGB
Brightness	550cd/m ² (Typ.)
Contrast	1000:1
Response time	12 mS (Typ.) 8 mS (gray to gray)
Color temperature	3200K, 5400K, 6500K, 9300K, USER
Viewing Angle	Horizontal / Vertical: 176 degrees, 85 deg.: (K>=10)
Operating temperature	5-40 (41-104 F)
Operating humidity	20-80 % (Relative humidity non-condensing)
Power requirement	AC100-240V, 50/60Hz, ≤250W
P47LHA Size	1138.80 x 682.38 x 126.4 mm, (44.83 x 26.87 x 4.98 inches)
Weight	P47LHA: 52kg (114.64 lbs)
Accessories	Owner's Manual, Power / RGB / DVI-D / VGA / RS232 cables, Remote control

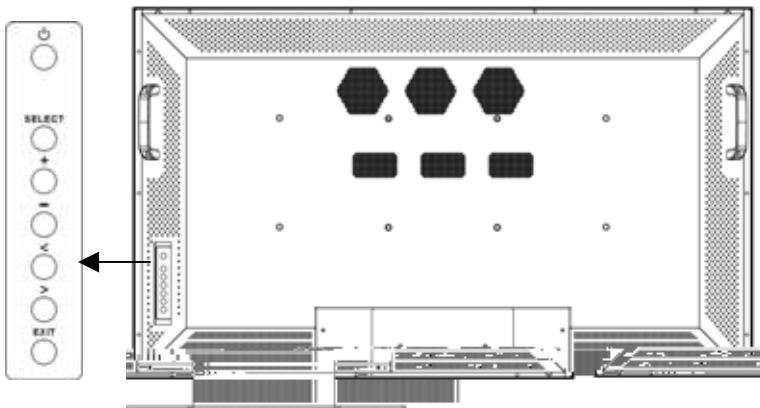
Video Input	Terminal	Video Composite Input: BNC
	Level	Video Input: 1.0Vp-p composite video, PAL/NTSC
Y-C Input	Terminal	Y-C separate Inputs: BNC-terminals
	Level	Luminance: 1.0Vp-p, Color: 0.3Vp-p
Y-Cb-Cr Input		Y-Pb-Pr compatible, 3 BNC terminals (NTSC/PAL/480p)
DVI input		Digital PC signal (not fully compatible to all the signals, no HDCP)
RGB Input	Terminal	RGB input: HD D-sub 15pin (female) connector
	Level	R/G/B signal: 0.7Vp-p (75-ohm termination)
		H.SYNC / V.SYNC signals: TTL

Names and Functions of Controls <Unit>

Front



Side Controls



No.	Key	Descriptions
1	Power	Power on / Power off
2	Select	Activate selection
3	+	Menu Right
4	-	Menu Left
5	<	Menu Down
6	>	Menu Up
7	Exit	OSD control Menu button

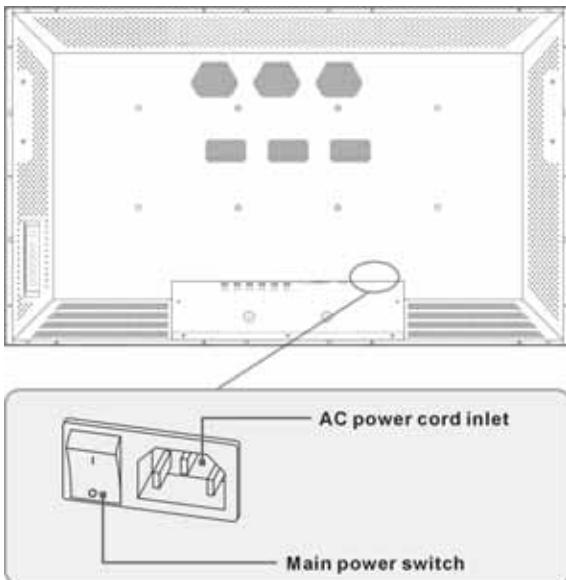
■ Side Keypad lock/unlock control:

Use control push buttons at side:

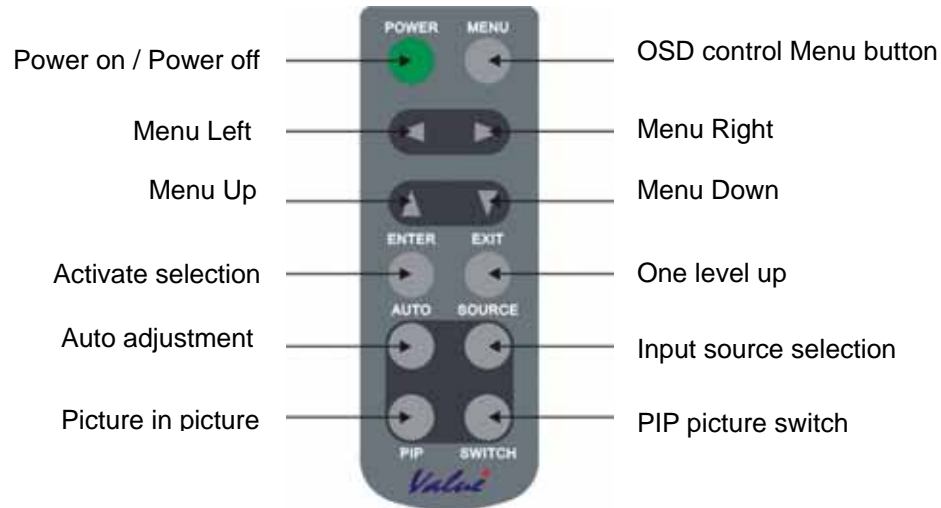
Lock: Press (+) and (<) at the same time and OSD will be locked.

Unlock: Press (+) and (<) at the same time again and OSD will be unlocked.

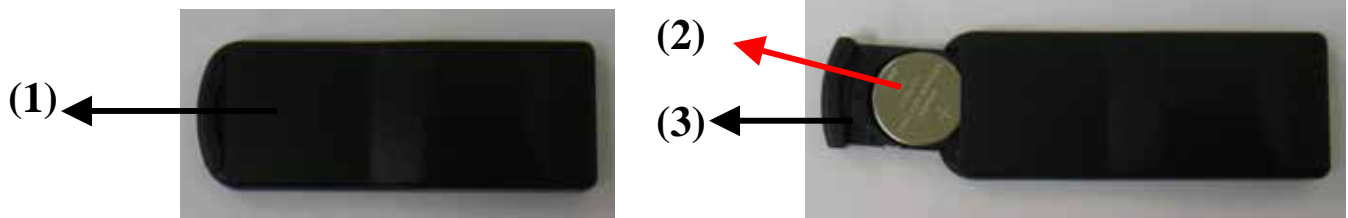
Back



Names and Functions of Controls <Remote control>



Battery Installation



To replace battery inside

Push down a little as (1) in the picture and pull the back cover

Replace with the new battery as (2), 1 piece Lithium battery (CR2032) make sure the polarity of battery is correct.

3) Place back cover and slide it is as (3) in the picture.

4) Used battery need to follow the city rule to discard.

5) Avoid keeping used, old battery inside the remote control, causing leakage of internal liquid resulting metal rust or fatal damage to the remote control hand unit.

CAUTION

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used battery according to the instructions.

Effective range

- Point the remote control at remote sensor on LCD monitor.

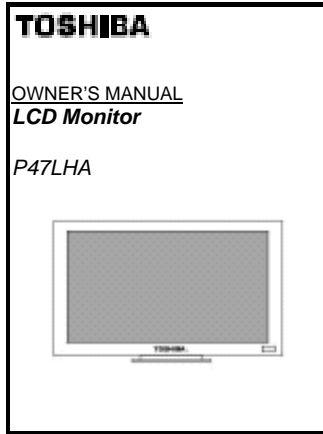
About the remote control

- Do not drop, shake or bump.
- Do not wet, do not place on wet materials.
- Do not dismantle.
- Do not place in locations exposed to high temperature or high humidity levels.

Supplied Accessories

Please check all are supplied.

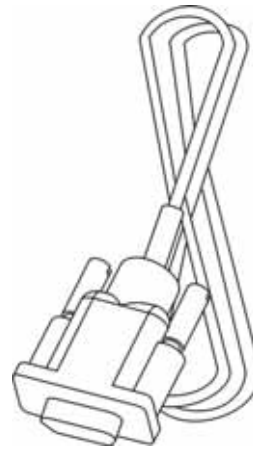
Owner's Manual x 1



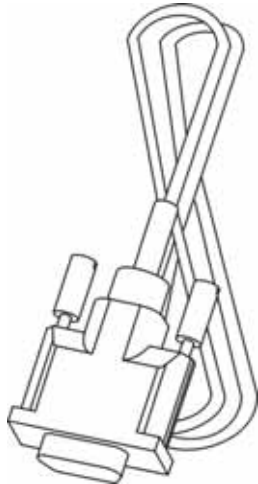
Remote Control x 1



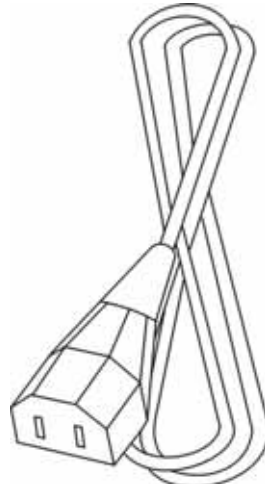
VGA Cable x 1(1.8M)



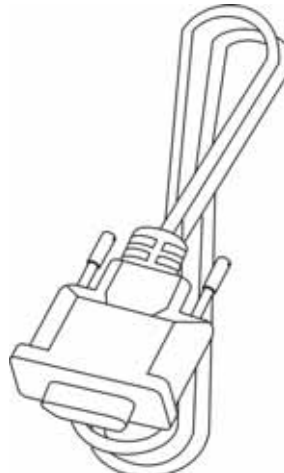
RS232C Cable x 1(3M)



Power Cord x 1 (1.8M)



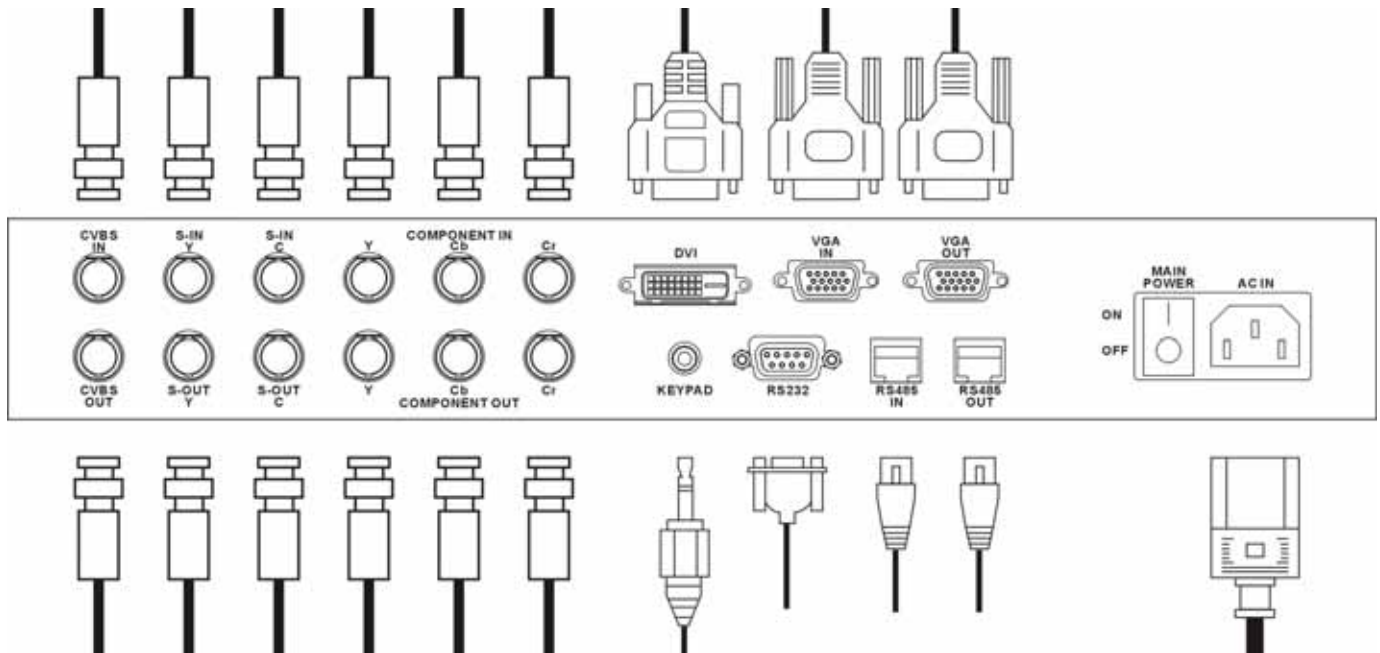
DVI-D Cablex1 (1.8M)



RGB to Y-Cb-Cr Cable x 1(1.8M)



Connection



VIDEO SIGNAL INPUT/OUTPUT

	Terminal Type	Suitable signals
CVBS-IN	BNC	NTSC/PAL
S-VIDEO-IN	BNC	NTSC/PAL
YUV (Y Pb/Cb Pr/Cr)-IN	BNC	NTSC/PAL
CVBS-OUT	BNC	NTSC/PAL
S-VIDEO-OUT	BNC	NTSC/PAL
YUV (Y Pb/Cb Pr/Cr)-OUT	BNC	NTSC/PAL


RGB INPUT/OUTPUT

	Terminal Type	Suitable signals
RGB DIGITAL	DVI-D 24 pin	RGB DIGITAL
RGB ANALOG-IN	D-Sub 15 pin	RGB ANALOG (720p, 1080 i/p)
RGB ANALOG-OUT	D-Sub 15 pin	RGB ANALOG

CONTROL INPUT/OUTPUT

	Terminal Type	Suitable signals
KEYPAD-IN	mini jack	Key code
RS232-IN	D-Sub 9 pin	RS232
RS485-IN/OUT	RJ45	RS485

Installation

 **Caution** Call a service technician for installation.

To a service technician

- For safety, make sure the place has enough strength to hold the whole weight of the monitor and the frames (*1). If necessary, reinforce the place before installation.
- At least two people are needed for installation.
- Be careful not to lose removed screws or parts.
- Before starting installation, discuss well with customers about the position to install, and get their agreement.
- After installation, check the installation is correct and safe.

*1: About the material and the structure of the wall, ceiling and floor to install LCD monitor

Where to install the LCD monitor

If the wall is made of thin plywood or plastered board, it cannot hold the weight.

The chart below shows adaptable anchors for each material. Please check well the structure and strength of the place to install, and choose the best method for safety.

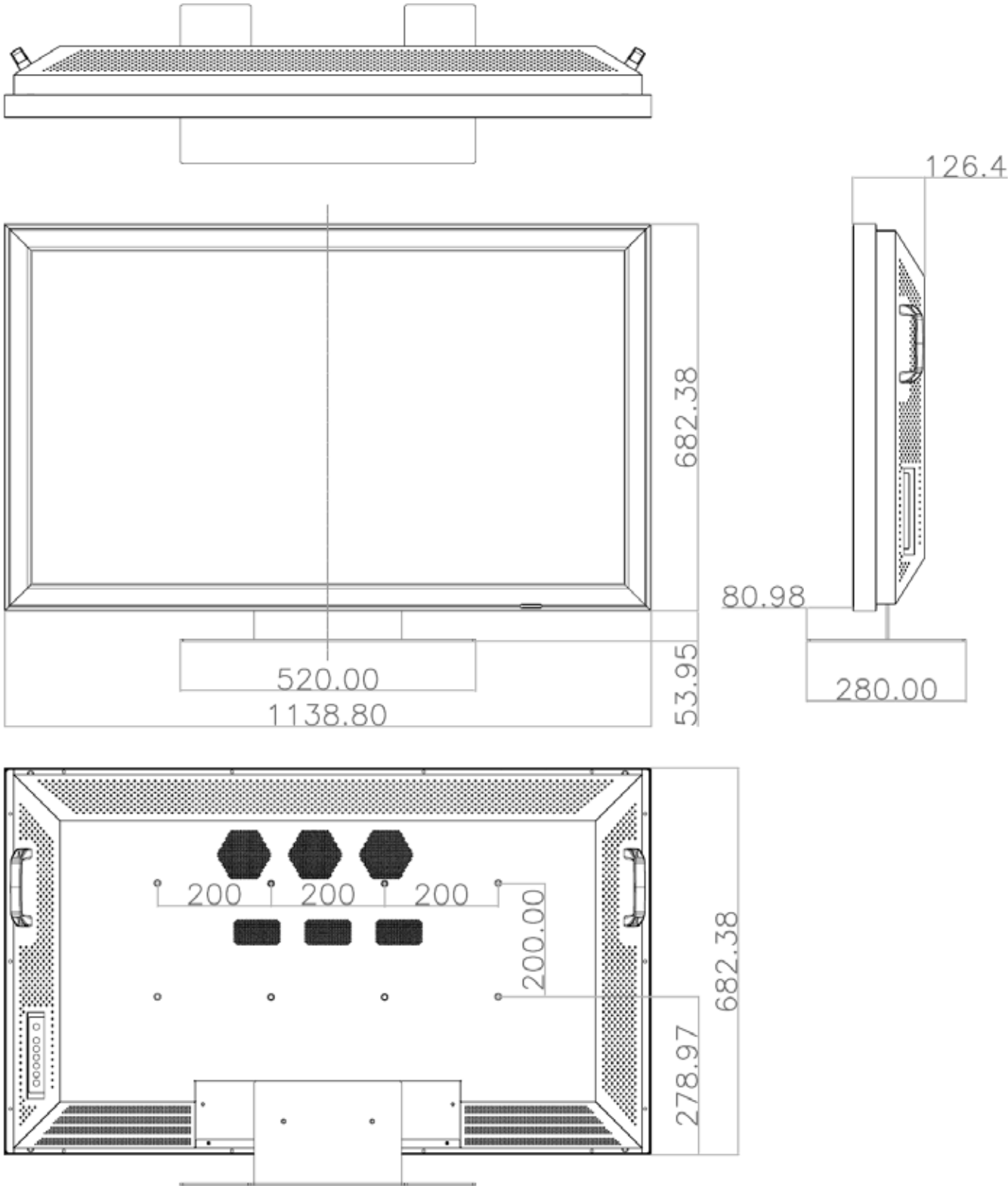
Adaptable anchors / screws for each material

Material	Anchor
Plastered board Plywood board	Impossible to install in Plastered board or Plywood board. Install in the tie beam instead of the wall.
Concrete	Whole anchor or Bolt
Block	Tie lock anchor
ALC	
Mortar	
Brick	
Wooden pillar	Coach bolt (diameter: 6mm(0.236 inch) x length: 60mm(2.36inch))

■ For inquiries and repair

Please refer to the shop you bought the unit for repair and inquiries.

Dimension

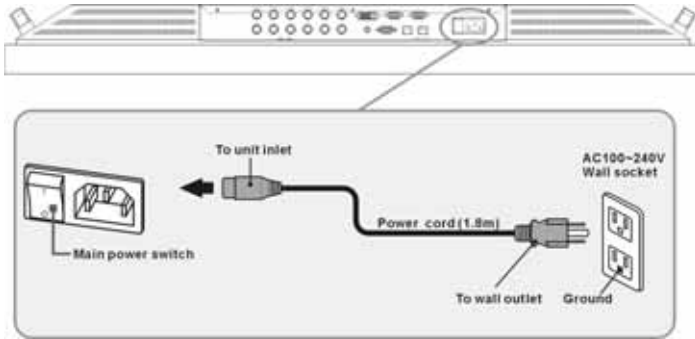


Power On/Off

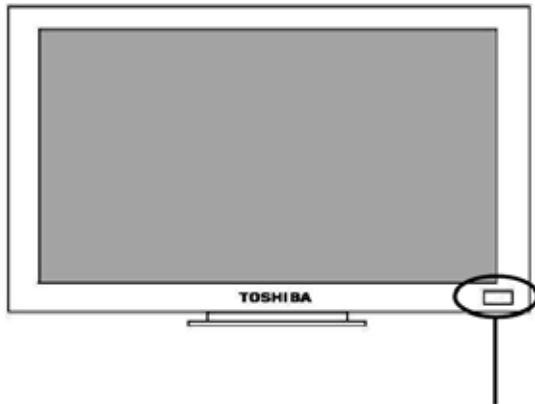
Before turn on, wire all the cable connecting to auxiliary equipment, power cord, etc.
There are two controls for power, Main power switch and POWER (standby / on) button.

■ Main power switch

Bottom



Front



Power Standby / On indicator

Mode	LED indicator
Power on	Green
Power Standby	Yellow
No signal	Orange
No power input	No LED

If Main power switch is not On, you cannot turn on the unit by the POWER (Standby / On) button.

■ POWER button on the remote control

About the control by the POWER button on the unit side on, refer to page 12.

POWER button on the Remote control.
You can switch Power standby (Yellow) to On (Green) by pressing this button.



Menu Function

Display Menu, pictures or various functions can be set with the buttons on the remote control. The following are summary of Menu Function. For details, please see to refer pages.

■ Function of Remote control



No.	Key	Descriptions	No.	Key	Descriptions
1	Power	Power on / Power off	7	Menu	OSD control menu button
2	◀	Menu Left	8	▶	Menu Right
3	△	Menu Up	9	▽	Menu Down
4	Enter	Activate selection	10	Exit	One Level up
5	Auto	Adjust clock, phase, H position and V position Automatically	11	Source	Input source selection
6	PIP	Picture in picture	12	Switch	PIP picture switch

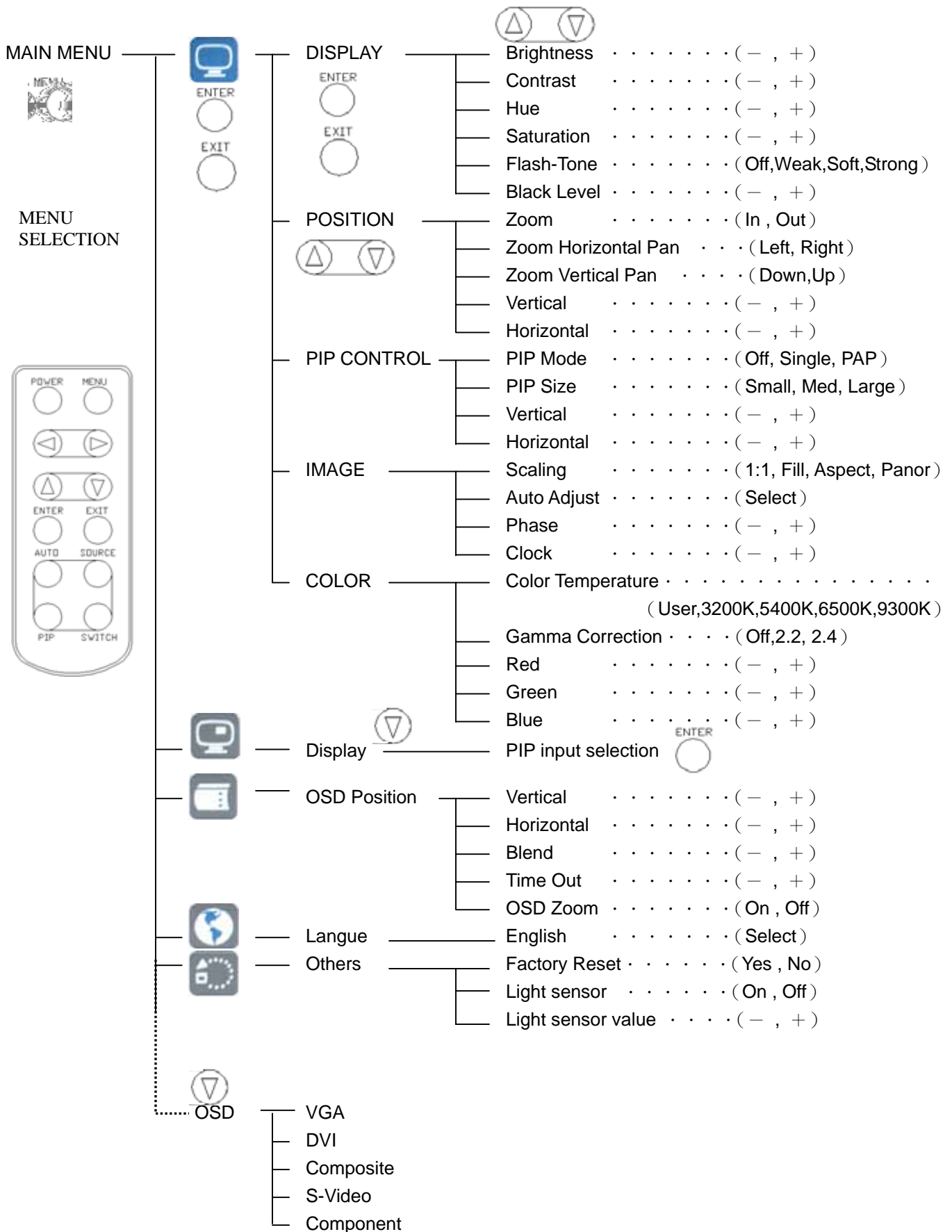
■ Remote control Keypad lock/unlock control:

Use remote control push buttons:

Lock: Press (Enter)=> (Enter)=> (Exit)=> (Exit)=> (Enter)=> (Exit) sequently and OSD will be locked.

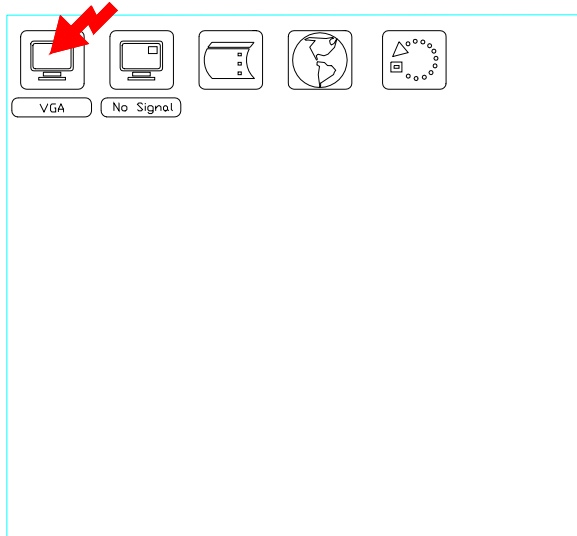
Unlock: When OSD be locked. Press (Enter)=> (Enter)=> (Exit)=> (Exit)=> (Enter)=> (Exit) sequently and OSD will be unlocked.

Menu display chart



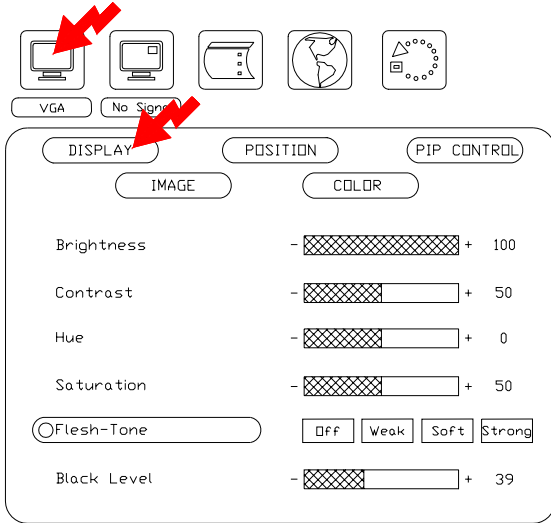
Main Menu page

From normal mode, **[MENU]** button will guide to this page.



Display Menu page

After entering Main Menu, **[ENTER]** will display this page. To escape from the mode, use **[Exit]**.

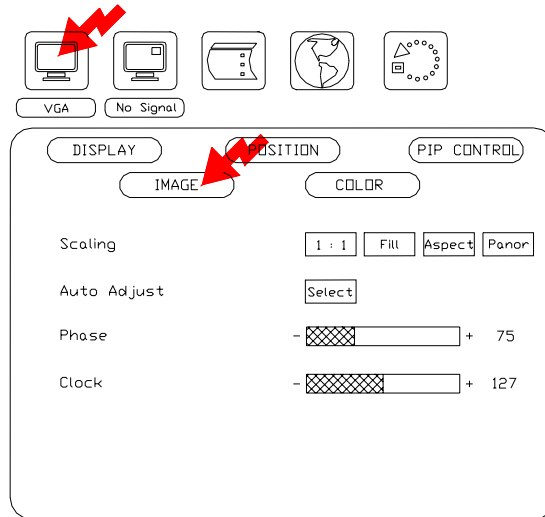
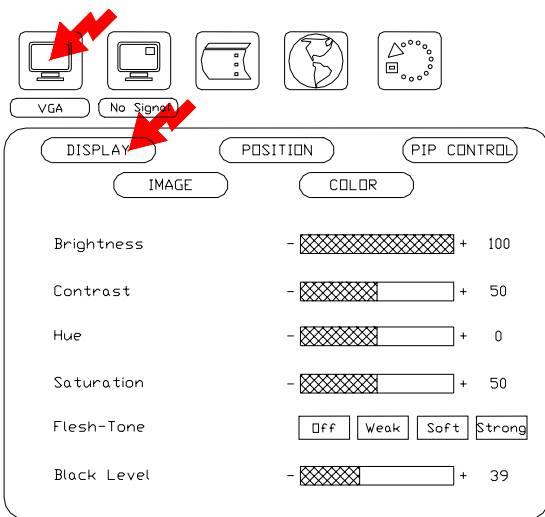


In this Display Menu page, DISPLAY, IMAGE, POSITION, COLOR or PIP CONTROL can be selected. Most of them are picture quality or adjustment related.

Once entered to the any mode, such as above right, DISPLAY Menu mode, note that the highlighted section is selected. This picture indicates that **[Down]** button is used so that Flesh-Tone is also highlighted. To change or adjust the value, **[Up]/[Down]** or **[Left]/[Right]** key will do for selection. Normally, **[Up]/[Down]** are for adjustment item selection and **[Left]/[Right]** are for value change.

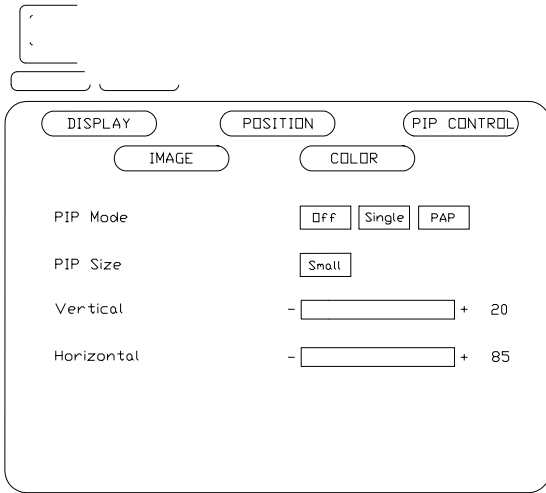
As for the adjustment, RGB PC signal, Y-Cb-Cr signal or Video signal, some adjustments are different from the one to the other by different input selection.

When going out from this mode for example, above right picture, in Flesh-Tone



PIP Control page

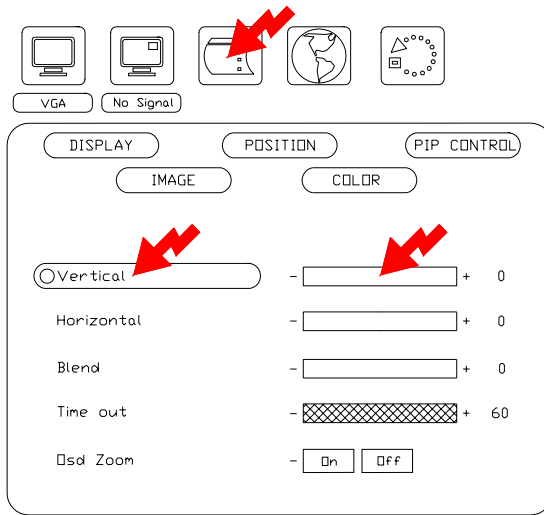
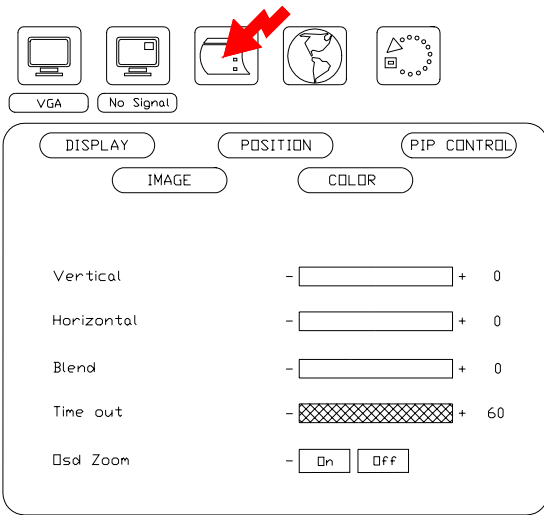
In this page, Picture-in picture feature is selected.



The diagram shows a control panel with a navigation bar at the top containing three tabs: 'DISPLAY', 'POSITION', and 'PIP CONTROL'. The 'PIP CONTROL' tab is selected. Below the navigation bar are two sub-tabs: 'IMAGE' and 'COLOR'. The 'IMAGE' sub-tab is selected. The main area contains the following settings:

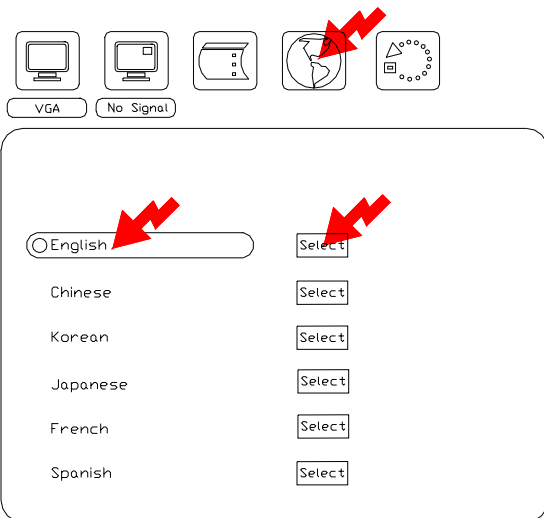
- PIP Mode: A row of three buttons labeled 'Off', 'Single', and 'PAP'. The 'PAP' button is selected.
- PIP Size: A button labeled 'Small'.
- Vertical: A slider control with a minus sign on the left and a plus sign on the right, with the number '20' to the right of the plus sign.
- Horizontal: A slider control with a minus sign on the left and a plus sign on the right, with the number '85' to the right of the plus sign.

OSD (On Screen Display) Control page



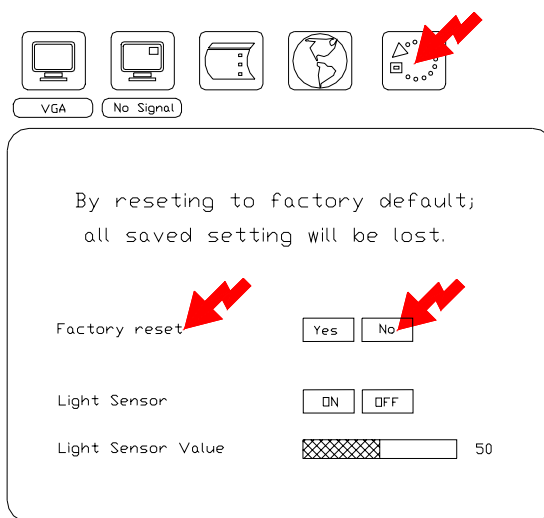
Language selection page

Only 'English' selection is available.



Factory Reset page

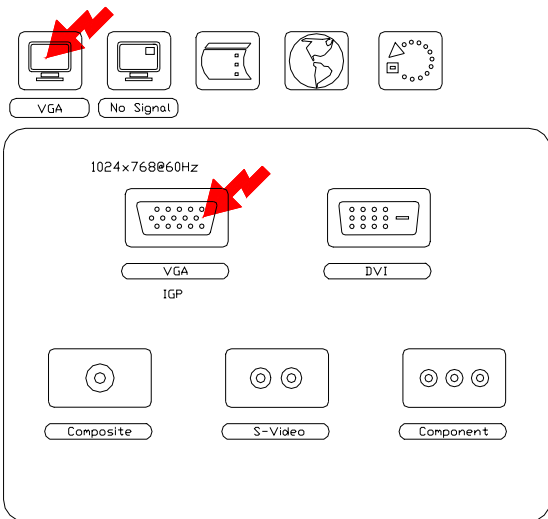
When all reset is necessary, this is the page to reset.



The Light Sensor is placed at the power indicator area, also, wireless remote control receiver is located at the same place.

The purpose of this light sensor is to check the environment light level. If the area was dark, then, display Brightness may not be so much brighter compared to the bright noon time. Light sensor selection is to make ON-OFF, if this function is necessary or not.

Light Sensor Value adjustment works as to control the picture brig



Input signal selection and its contents

This page can be displayed by using [Down] key while at the Main Menu page, appeared in page 21.

This page is convenient to check the incoming resolution as indicated here as 1024x768@60Hz.

“IGP” is indicating that the input signal is coming from Graphic card signal, as Input Graphic Processor.

When Video signal is selected, “IVP”, Input Video Processor will appear at lower portion indication.

A Guide to Simple Problem Solving

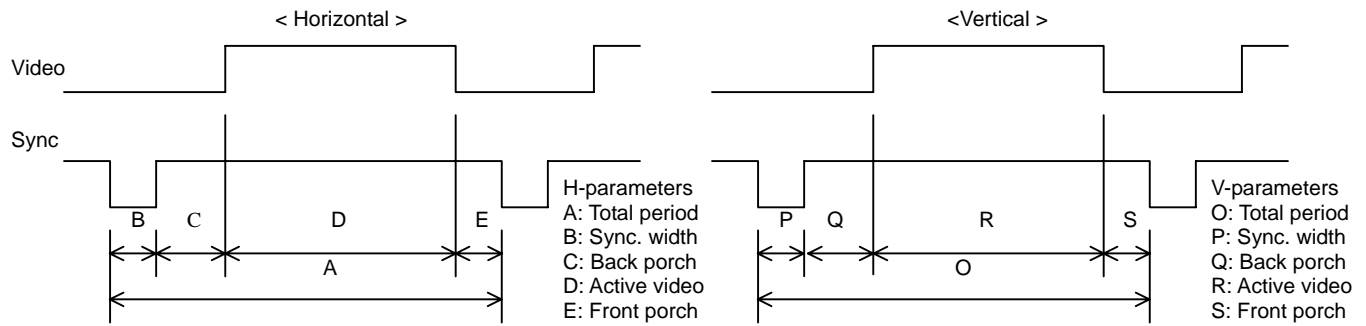
Before calling service personnel, please check the following chart for a possible cause to the trouble you are experiencing.

Symptom	Check these things	Page
No picture	· Make sure the power cord is plugged in.	17
	· Maybe the power is Off or Standby.	17
	· Check whether the auxiliary equipment is connected.	14
	· Check the input setting is correct.	14
	· Signal may not be suitable.	14
The remote control does not operate	· Make sure the battery is inserted matching the + and – marks of the battery compartment.	12
	· The battery may be exhausted.	12
	· Use the remote control aiming at the remote control sensor.	11
The picture color is pale, or not clear	· Check the picture quality adjustment.	19
	· If you are using YUV terminals, make sure cables are correctly connected.	N/A

■ Factory default setting

Item	Default	Item	Default
Power switch	Off	Color temp.	User
Brightness	50	Red	225
Contrast	50	Green	225
Hue	0	Blue	225
Saturation	50	Language	English
Flesh-tone	Off	Light Sensor	Off
Gamma Correction	Off	Light Sensor Value	25
Auto Config	On		

Input Signal



Item	Video Mode		fH (kHz)	fV (Hz)	Dot clock (MHz)	Sync polarity		Horizontal (dot)					Vertical (line)					Analog	Digital (Optional)	
						H	V	A	B	C	D	E	O	P	Q	R	S			
1	VGA50	VGA 640x480	26.250	50.000	21.000	N	N	800	96	40	640	24	525	2	25	480	18	O	O	
2	VESA	VGA 640x480	31.469	59.940	25.175	N	N	800	96	48	640	16	526	2	33	480	11	-	O	
3			37.861	72.809	31.500	N	N	832	40	128	640	24	520	3	28	480	9	O	O	
4			37.500	75.000	31.500	N	N	840	64	120	640	16	500	3	16	480	1	O	O	
5			SVGA 800x600	31.400	50.000	33.158	P	P	1056	128	88	800	40	628	4	23	600	1	O	O
6		SVGA 800x600	35.156	56.250	36.000	P	P	1024	72	128	800	24	625	2	22	600	1	O	O	
7			37.879	60.317	40.000	P	P	1056	128	88	800	40	628	4	23	600	1	O	O	
8			48.077	72.188	50.000	P	P	1040	120	64	800	56	666	6	23	600	37	O	O	
9			46.875	75.000	49.500	P	P	1056	80	160	800	16	625	3	21	600	1	O	O	
10		XGA 1024x768	40.300	50.000	54.163	N	N	1344	136	160	1024	24	806	6	29	768	3	O	O	
11		XGA 1024x768	48.363	60.004	65.000	N	N	1344	136	160	1024	24	806	6	29	768	3	O	O	
12			56.476	70.069	75.000	N	N	1328	136	144	1024	24	806	6	29	768	3	O	O	
13			60.023	75.029	78.750	P	P	1312	96	176	1024	16	800	3	28	768	1	O	O	
14		SXGA	1152x864	67.500	75.000	108.000	P	P	1600	128	256	1152	64	900	3	32	864	1	O	O
15			1280x1024	53.300	50.000	89.970	P	P	1688	112	248	1280	48	1066	3	38	1024	1	O	O
16			63.981	60.020	108.000	P	P	1688	112	248	1280	48	1066	3	38	1024	1	O	O	
17		1280x1024	79.976	75.025	135.000	P	P	1688	144	248	1280	16	1066	3	38	1024	1	O	O	
18		VGA TEXT	720x400	31.469	70.087	28.322	N	P	900	108	45	720	27	449	2	35	400	12	-	O
19	UXGA50	1600x1200	62.50	50.00	135.00	N	N	2160	192	304	1600	64	1250	3	46	1200	1	O	O	
20	UXGA60	1600x1200	75.00	60.00	162.00	N	N	2160	192	304	1600	64	1250	3	46	1200	1	O	O	
21	Macintosh	640x480	35.000	66.667	30.240	N	N	864	64	96	640	64	525	3	39	480	3	O	O	
22		832x624	49.725	74.500	57.283	N	N	1152	64	224	832	32	667	3	39	624	1	O	O	
23		1024x768	60.150	74.720	80.000	N	N	1330	96	168	1024	42	805	3	31	768	3	O	O	
24	720p-50	1280x720	37.50	50.000	74.250	N	N	1980	40	220	1280	440	750H	5H	20H	720H	5H	O	O	
25	720p-59.9	1280x720	44.96	59.94	74.18	P	P	1650	40	220	1280	110	750H	5H	20H	720H	5H	O	O	
26	720p-60	1280x720	45.00	60.00	74.25	P	P	1650	40	220	1280	110	750H	5H	20H	720H	5H	O	O	
27	768-60	1360x768	47.72	59.95	84.75	N	N	1776	152	176	1360	88	796H	3H	24H	768H	1H	O	O	
28	1080i-50	1920x1080	28.13	25.00	74.25	P	P	2640	44	528	1920	148	562H	2H	5H	540H	15H	O	O	
29	1080i-59	1920x1080	33.72	29.97	74.18	P	P	2200	44	88	1920	148	562H	3H	19H	540H	0	O	O	
30	1080p-50	1920x1080	62.50	50.00	148.5	P	P	2376	66	243	1920	147	1250	1H	160	1080	9H	O	O	
31	1080p-50	1920x1080	56.25	50.00	148.5	P	P	2640	44	148	1920	528	1125	5H	36H	1080	4H	O	O	
32	1080p-59	1920x1080	67.43	59.94	148.35	P	P	2200	44	148	1920	88	1125	5H	36H	1080	4H	O	O	
33	1080p-59	1920x1080	67.50	60.00	148.5	P	P	2200	44	148	1920	88	1125	5H	36H	1080	4H	O	O	
34	NTSC	NTSC 358-443	15.734	59.94	16.521															
35	PAL	PAL SECAM	15.625	50.00	16.406															

USER-INSTALLER CAUTION

YOUR AUTHORITY TO OPERATE THIS FCC CERTIFIED EQUIPMENT COULD BE VOIDED IF YOU MAKE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THIS PART RESPONSIBLE FOR COMPLIANCE TO PART 15 OF THE FCC RULES.

NOTE:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Statement:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions : (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE MARKING DECLARATION OF CONFORMITY

This LCD Touch Monitor complies with the requirements of related European standards, which include:

- Emission : EN 55022, EN 61000-3-2, EN-61000-3-3
- Immunity : EN 55024, IEC61000-4 Series
- Safety : EN 60950 [Low-Voltage Directive (73/23/EEC)]



It may be against copyright regulation to broadcast commercial video software or unit programs for commercial purpose using this product, or to rewrite such software or programs with wipe-mirror function.

Please refer to a entitled party for approval in advance.



This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Annex

Suggested text for the notice indicating compliance with this Standard:

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

About trademarks

VGA, SVGA, XGA and SXGA are trademarks or registered trademarks of International Business Machine Corporation.

TOSHIBA LIGHTING & TECHNOLOGY CORPORATION